

Computing Sciences Area 2022 POSTDOC SYMPOSIUM



Tuesday, February 8, 2022



Hannah Klion – 10:00am
Particle-in-Cell Simulations
of Relativistic Magnetic
Reconnection



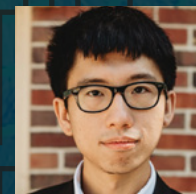
Osman Asif Malik – 10:30am
Sampling-Based Methods for
Tensor Ring Decomposition



Prabhat Kumar – 11:00am
Exascale Modeling of Electro-
magnetics with Applications
to Microelectronics and
Particle Accelerators



Vincent Dumont – 11:30am
HYPPO: A Surrogate-based,
UQ-informed, and multi-level
parallelism HPO tool



Niladri Gomes – 1:00pm
Adaptive Variational Approach
for Quantum Simulations



Hengrui Luo – 1:30pm
GPTune: Advanced
Problems in Surrogate-based
Black-box Optimization with
Applications



Lipi Gupta – 2:00pm
ALS to NERSC Data Pipeline
for Rapid Tomography

Wednesday, February 9, 2022



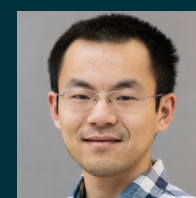
Ankur Kumar Gupta – 10:00am
3D CNNs Utilizing Molecular Topological
Features for Accurate Atomization Energy
Predictions



Daan Camps – 10:30am
FunFact: a Tensor Algebra Language
with Applications in Deep Learning



Yize Chen – 11:00am
Enabling Secure Learning for
Clean Energy Systems



Hengjie Wang – 11:30am
Mosaic Flow: A Transferable Deep
Learning Framework for Solving
PDEs on Unseen Domains

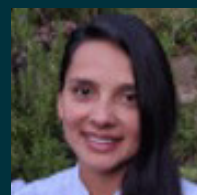
Thursday, February 10, 2022



Huo Chen – 10:00am
Optomechanical Quantum
Transduction Control Protocol



Jean Luca Bez – 10:30am
Towards Understanding I/O Behavior
with Interactive Exploration



Patricia Gonzalez – 11:00am
Temporal and SFQ Pulse Streams
Encoding for Area-Efficient
Superconducting Accelerators



Soham Ghosh – 11:30am
Performance portability of linear
algebra routines in GW calculations

<https://lbln.zoom.us/j/205038583>